

JEYALAKSHMI RAMAMOORTHY

SENIOR FULL STACK ENGINEER | REACT & NODE | .NET | TOTAL EXP- 9+

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SUMMARY

A dedicated and results-driven professional seeking a challenging position in a reputable organization to leverage my skills, knowledge, and training. Committed to contributing significantly to the company's success while expanding my learnings in a dynamic environment. Eager to utilize my interpersonal skills to achieve the organization's goals, with a strong focus on customer satisfaction and enhancing the overall customer experience.

WORK EXPERIENCE

Senior Full Stack Engineer

Maybank, Malaysia

Sep 2023 - Present

Project Name: MPOP (Maybank Payment Operations Portal)

- Leading the MPOP project for front-end web page and backend server integration.

Modules Implemented:

- **ISO (International Organization for Standardization)**
 - Store and maintains the customer and corresponding beneficiary account information in the database. The information will be activated once approved by other admins.
 - Handling payment portal transactions between banks and between banks and customers from Midas server
 - Converting SWIFT standard transaction messages (MT) into XML messages (MX) and vice versa using backend tools.
 - Creating new transaction payment using pacs008, pacs009 and 009Cov schema data.
 - Tracking logged in user's each activities.
- **RTS (Regional Transfer)**
 - Maintaining and monitoring the bank list information for all banks connected with Maybank.
 - Summarizing debit and credit transactions for effective monitoring.
 - Managing charging fees, including service tax and processing tax based on country selection.

Key Responsibilities:

- Planning, designing, development, testing, task creation, deployment, setting up new user activities, and sprint closure.

Technical Skills:

- Languages/Frameworks: **React.js (Redux), Node.js (Express), TypeScript, JavaScript**
- Databases: **PostgreSQL, MongoDB**
- Architecture: **Redux Toolkit.**
- Servers: **Windows, Linux, IIS**
- DevOps Tools: **CI/CD, GitLab Runner, Apache, HTTPD, PM2**
- Project Management tools: **GitHub, Confluence, JIRA**
- End Users: **London, Singapore**
- Contract Company: **Tech Matrix Pvt Ltd (Payroll & Visa Processing Company)**
- Company Location: **Kuala Lumpur, Malaysia**

Senior Full Stack Engineer

Kimball Electronics Pvt Ltd

Feb 2020 - Sep 2023

Project 1: TokyoCMS - Leading IIOT 4.0 Project for Server and Web Page

- Directly Responsible Individual (DRI) for the Factory Digitalization project in Japan, successfully completed in April 2021; currently working on international projects.
- **Responsibilities:**
 - Managed upcoming IIOT 4.0 projects.
 - Responsible for customer demonstrations and proof of concepts.
 - Estimated and delivered server-related tasks.
 - Served as Project Architect for server and IIOT data flow under ISA 88 standards.
 - Collaborated closely with the Software Testing team on both white-box and black-box testing.
 - Led a team in developing Industrial 4.0 software.
 - Coordinated with the Global Factories Team on Design for Manufacturability (DFM) discussions and IIOT-related requirements.
 - Coordinated with customer business analysts or product owners to clarify concepts, designs, and release packages.
 - Collaborated closely with team members, customers, and management to address project status.
 - Configured a new VM setup in the local testing server to mirror production without external support.
 - Managed the Scrum master role and supervised junior employees, with a team size of 2.
- **Projects Handled:**
 - **Factory Digitalization for Pharma Industry IIOT 4.0**
 - **Domain:** Medical, regulated by government standards.
 - Focused on regenerative medicines with stem cells.
 - Monitored 120+ machines, collecting 5 parameters per machine at one-minute intervals.
 - Implemented 24/7 data monitoring using MQTT.
 - Emphasized data security, minimized network traffic, and balanced heavy data loads.
 - **Technologies utilized:** MQTT, VerneMQ, NGINX Server, Redis Server, Protocol Converters, Queuing services, C#, API Server, PLC, IPC, InfluxDB, and Telegraf.
 - Digitalized an entire pharma factory in Japan, collecting data from field devices via PLC/FL-Net modules, sending data to C#, and then to Telegraf and VerneMQ. Telegram sends data to the historian server, and VerneMQ sends data to the API server.
 - Implemented the Floor Map Designer feature.

- **Roles:**
 - Sizing, planning, implementation, development testing, and production deployment.
- **Technologies:**
 - Languages/Frameworks: **Typescript, React.js (Redux), Node.js (Express), Dot Net**
 - Databases: **PostgreSQL, InfluxDB, MongoDB**
 - Mobile Applications: **React Native.**
 - Servers: **IIS, Windows, Linux, iOS, Telegraf, NGINX**
 - Protocols: **MQTT (Connector - VerneMQ), Web Socket.**
 - DevOps Tools: **CI/CD, GitLab Runner.**
 - Cloud Technology: **AWS (Lambda, SNS,SQS)**
- **End User:** Japan

Project 2: EMTab - IIOT 4.0 for EMS Automobile Industry

- Integrated multiple machines and PLCs with different protocols to collect and store data for 6 years. Visualized the data in a custom web UI with historian features. Data was stored in a format optimized for machine learning and deep learning, enabling AI-driven predictions and insights.
- **Roles:**
 - Sizing, planning, implementation, development testing, and deployment.
- **Technologies:**
 - Languages/Frameworks: **React.js (Redux), Node.js (Express), Typescript**
 - Databases: **MySQL, InfluxDB, MongoDB**
 - Mobile Applications: **React Native.**
 - Project Management Tools: **GitHub, SVN, Jira**
 - Servers: **Windows, Linux, Telegraf**
 - Protocols: **MQTT, WebSocket.**
- **End Users:** Thailand, China, and Mexico
- **Company Location:** Thiruvananthapuram, India

Senior Software Engineer

RM Education Pvt Ltd.,

July 2015 - July 2019

Project Name: eMarking

- **Roles:**
 - Sizing, planning, implementation, development testing.
- **Responsibilities:**
 - Installed and commissioned systems at customer sites.
 - Implemented proper agile methodologies for project management.
 - Led junior employees in development activities.
 - Acted as an active Scrum Master, depending on the lead's availability.
 - Presented project demos to customers.
 - Provided onsite support in London on two occasions.
 - Conducted code reviews to maintain code quality.
 - Supported build and deployment processes.
 - Led new product launches.
- **Projects Handled:**
 - Online Exam Paper Marking and Validation
- **Project Overview:**
 - Developed an online system for marking and validating exam papers, which includes practice and live marking, team management, and admin handling.

- The system scans and uploads student scripts into databases and shared folders on the server.
- The uploaded scripts are accessed by the application, where markers place annotations and add scores. After validation, the scores are published.
- **Sub-Tools and Features:**
 - **SAAD:** A subsystem for specific administrative and analysis tasks.
 - **Image Processing for Answer Sheet Evaluation:**
 - Developed a Python-based image processing system using OpenCV to automate the evaluation of answer sheets.
 - Extracted answered sections from structured forms as images and sent them to an AI model for OCR processing.
 - Converted images into human-readable text using OCR and compared extracted text with the correct answer key to automatically assess responses.
 - This solution significantly reduced manual effort and improved accuracy in evaluating large volumes of answer sheets efficiently.
- **Technologies:**
 - Frontend: **React.js with TypeScript.**
 - Backend: **.NET (Web API).**
 - Databases : **MS SQL**
 - Servers: **Windows, IIS**
 - Storage: **AWS (File Storage and Blob Storage).**
 - Image Processing: **Python, Flask, OpenCV, AWS Amazon Textract.**
- **End User:** UK
- **Company Location:** Thiruvananthapuram, India

Software Developer

UFours IT Solutions

Sep 2013 - July 2015

Project Name: Team Worker

- **Responsibilities:**
 - Developed Windows applications.
 - Communicated directly with clients to discuss and understand project requirements.
 - Managed projects independently.
 - Conducted development testing and deployed applications to production sites.
 - Worked on multiple projects simultaneously.
 - **Projects Handled:**
 - Job Assignment and Employee Work Time Tracking Tool
 - **Project Overview:**
 - Developed a tool to assign jobs and track employee work hours and productivity.
 - The tool includes features for job assignment, idle time tracking, working time tracking, and capturing system screenshots at configured intervals.
 - Enabled assigning both recursive and non-recursive jobs to multiple employees simultaneously.
 - Tracked employees' working hours, idle hours, and took system screenshots to monitor productivity.
 - **Technologies Used:**
 - Platform: **.NET (Windows)**
 - Database: **MS SQL**
 - **End Users:** Pakistan, US
 - **Company Location:** Madurai, TamilNadu, India
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SKILLS

- **Databases** - MS SQL Server, PostgreSQL, InfluxDB, MongoDB
 - **Cloud Databases** – Firebase, AWS
 - **Languages** – C# (Object-Oriented Programming), ASP.NET, TypeScript, JavaScript, jQuery
 - **Frameworks** - .NET Core, Express
 - **JavaScript Libraries** – React.js, Node.js
 - **Deployment Tools** - CI/CD, GitLab Runner, Apache, HTTPD, NGINX, PM2
 - **Architecture** – Redux, MVC, 3-tier
 - **Servers** - Windows, Linux, IIS
 - **Communication Protocols** – MQTT, WebSocket, Telegraf
 - **Project management tools** - GitHub, VSTS, Confluence, Jira
 - **Mobile Applications** – React Native, Android Emulator, XCode Emulator
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EDUCATION

Bachelor of Engineering (Computer Science)	2010 - 2013
Sethu Institute of Technology, Virudhunagar, Tamilnadu, India	
Diploma of Computer Engineering	2007 - 2010
Government Polytechnic, Madurai, TamilNadu, India	

AWARDS & RECOGNITIONS

- “Star of the month” award from Kimball Electronics in Mar 2020.
 - “Consider it Done” award from Kimball Electronics in August 2022.
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CERTIFICATES

- “First class with distinction” in Junior Type Writing English.
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LANGUAGES

- **English, Tamil** - Fluent
 - **Malayalam, Kannada** - Speak
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PERSONAL DETAILS

- **Father Name** - Ramamoorthy
- **Husband Name** - Sathishkumar
- **DOB** - 25/04/1992
- **Marital Status** - Married
- **Nationality** - Indian
- **Gender** - Female